Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-03-28-08**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and cc drains at 2nd A cross Havanoor Layout in Ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/DD/WO/363/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-2018
Sample ID No	:	2018-03-28-08 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	29-03-2018

Date: 30-03-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	532	628	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	548	656	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	572	681	20.0%	Satisfactory	Satisfactory

Note:

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Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-03-28-08** **Date: 02-04-2018**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and cc drains at 2nd A cross Havanoor Layout in Ward No.14, Bagalagunte.

Agency : Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/DD/WO/363/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-03-2018

Sample ID No : 2018-03-28-08 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 29/03/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.41	100.49	1.310	4465	79.4	17.8	16.5	20.7
2	Cover Slab-2	75.55	100.51	1.319	4482	82.6	18.4	17.1	21.4
3	Cover Slab-3	75.49	100.49	1.329	4475	78.9	17.6	16.4	20.5

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-03-27-02** **Date: 23-02-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and cc drains at 2nd A cross Havanoor Layout in Ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/363/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-2018
Sample ID No	:	2018-03-27-02/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	27-03-2018
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	384	384	3.84	96.2	80-100
26.5	2483	2867	28.67	71.3	55-90
9.5	1950	4817	48.17	51.8	35-65
4.75	1966	6783	67.83	32.2	25-55
2.36	1075	7858	78.58	21.4	20-40
0.425	994	8852	88.52	11.5	10-25
0.075	970	9822	98.22	1.8	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	22.90%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-03-28-02** **Date: 29-03-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and cc drains at 2nd A cross Havanoor Layout in Ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/363/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-2018
Sample ID No	:	2018-03-28-02/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	28-03-2018
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-03-28-02** **Date: 29-03-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and cc drains at 2nd A cross Havanoor Layout in Ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/363/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-2018
Sample ID No	:	2018-03-28-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	28-03-2018

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	305.2	305.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	63.9	64.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	241.0	239.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	1.4
5	Aggregate impact value	(B/A)*100	20.9	21.0
6	Aggregate impact value (Mean of two tests)	Pecentage	21.0	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-03-28-02** **Date: 29-03-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and cc drains at 2nd A cross Havanoor Layout in Ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/363/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-2018
Sample ID No	:	2018-03-28-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	28-03-2018

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	9.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.7%	
Combined Flakiness and Elongation Index for WMM	22.5%	

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